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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,729	07/20/2005	Michael Stelter	002664-26	8390
25570 T550 T550 T2042008 COLE, P.C. Intellectual Property Department P.O. Box 10064 MCLEAN, VA 22102-8064			EXAMINER	
			MARTIN, ANGELA J	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/542,729 STELTER, MICHAEL Office Action Summary Examiner Art Unit ANGELA J. MARTIN 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 July 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 8-14 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 8-14 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 20 July 2005 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Tajima et al., U.S. Pat. 5,541,015, in view of Beckmann et al., U.S. Pat. Application Pub.
 2004/0038102 A1.

Rejection of claims 8-14 drawn to a fuel cell stack.

Tajima et al., teach a fuel cell stack, comprising: a plurality of fuel cell elements and a plurality of separating plates, a respective one of the separating plates being located between a respective pair of fuel cell elements, said channels extends in a direction in which the fuel cell elements and separating plates are stacked, a supply of combustion gas on a first side of the fuel cell elements and a supply of oxidizer on an opposite side of the fuel cell elements, wherein, on the first side of the fuel cell elements: a plurality parallel lengthwise channels are provided for routing of the combustion gas, a distributor zone which connects the supply channel to first ends of the lengthwise channels, and a collecting zone which connects the discharge channel to second ends of the lengthwise channels, and wherein, on the second side of the fuel cell elements, an oxidizer guide is formed which runs in the direction of the lengthwise

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channels and which is open to sides of the fuel cell stack for supplying of the oxidizer (col. 2, lines 5-26; claims 1-4; Fig. 2-7). Fuel cell stack as claimed in claim 8, wherein the distributor zone tapers from the supply channel along the first ends of the lengthwise channels and the collecting zone tapers from the discharge channel along the second ends of the lengthwise channels (Fig. 3, 5, 6).

Tajima et al., do not teach the supply and outlet channels are internal; do not teach the claim limitations of claims 9, 10, 12-14.

Beckmann et al., teach at least one inside supply channel being provided to supply a combustion gas and at least one inside discharge channel being provided to discharge an exhaust gas (Fig. 1, 4, 5). A fuel cell stack wherein the at least one supply channel and the at least one discharge channel are located in an area at one side of the fuel cell stack (Fig. 4). Fuel cell stack as claimed in claim 8, wherein the at least one supply channel and the at least one discharge channel are arranged by diagonally opposite corners of the fuel cell stack (Fig. 5). Fuel cell stack as claimed in claim 8, wherein the distributor zone and the collecting zone are made symmetrical with respect to the fuel cell elements (Fig. 4). Fuel cell stack as claimed in claim 1, wherein the distributor zone and the collecting zone are provided with cooling surfaces (0034). Fuel cell stack as claimed in claim 1, wherein at least one of the distributor zone and the collecting zone have heat exchange surfaces by which heat energy is transferable between the combustion gas and the oxidizer (0034).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to insert the teachings of Beckmann et al., into the

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teachings of Tajima et al., because it is well known in the art to incorporate internal supply and outlet channels in a fuel cell, as well as the location of supply and outlet channels, and providing a means of heat exchange, as illustrated in Beckmann et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELA J. MARTIN whose telephone number is (571)272-1288. The examiner can normally be reached on Monday-Friday from 10:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJM /Angela J. Martin/ Examiner, Art Unit 1795